Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Solasodine

Catalog No: tcsc1651

Available Sizes

Size: 100mg

Specifications

CAS No:
126-17-0

Formula:
$C_{27}H_{43}NO_2$

Pathway:
Apoptosis

Target:
MDM-2/p53

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Alternative Names:
Purapuridine;Solancarpidine;Solasodin

Observed Molecular Weight:
413.64

Product Description

Solasodine(Purapuridine) is a poisonous alkaloid chemical compound that occurs in plants of the Solanaceae family. Solasodine showed selective cytotoxicity against cervical cancer cell line (HeLa) and human myeloid leukemia cell line (U937).

IC50 Value: 12.17 ± 3.3 uM (Hela cell line)[1]

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Target: Anticancer

in vitro: Mouse embryonic teratocarcinoma P19 cells exposed to solasodine for 2 days followed by a 5-day washout differentiated into cholinergic neurons that expressed specific neuronal markers and displayed important axonal formation that continued growing even 30 days after treatment [2].

in vivo: A 2-week infusion ofsolasodine into the left ventricle of the rat brain followed by a 3-week washout resulted in a significant increase in bromodeoxyuridine uptake by cells of the ependymal layer, subventricular zone, and cortex that co-localized with doublecortin immunostaining, demonstrating the proliferative and differentiating properties of solasodine on neuronal progenitors. Solasodine treatment in rats resulted in a dramatic increase in expression of the cholesterol- and drug-binding translocator protein in ependymal cells, suggesting a possible role played by neurosteroid production in solasodine-induced neurogenesis. In GAD65-GFP mice that express the green fluorescent protein under the control of the glutamic acid decarboxylase 65-kDa promoter, solasodine treatment increased the number of GABAergic progenitors and neuroblasts generated in the subventricular zone and present in the olfactory migratory tract [2]. intraperitoneal (i.p.) injection of solasodine (25 mg/kg) significantly delayed (p